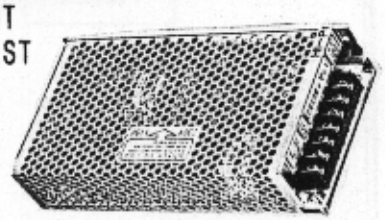
MEAN WELL
SWITCHING POWER SUPPLY

S-100F SERIES

- LOW COST, HIGH RELIABILITY
- 105℃ OUTPUT CAPACITOR
- INTERNATIONAL AC INPUT RANGE
- BUILT IN EMI FILTER, LOW RIPPLE NOISE
- HIGH EFFICIENCY, LOW WORKING TEMPERATURE
- SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT
- SHORT CIRCUIT, OVERLOAD, OVERVOLTAGE PROTECTED
- COMPACT SIZE, LIGHT WEIGHT
- 100% FULL LOAD BURN-IN TEST

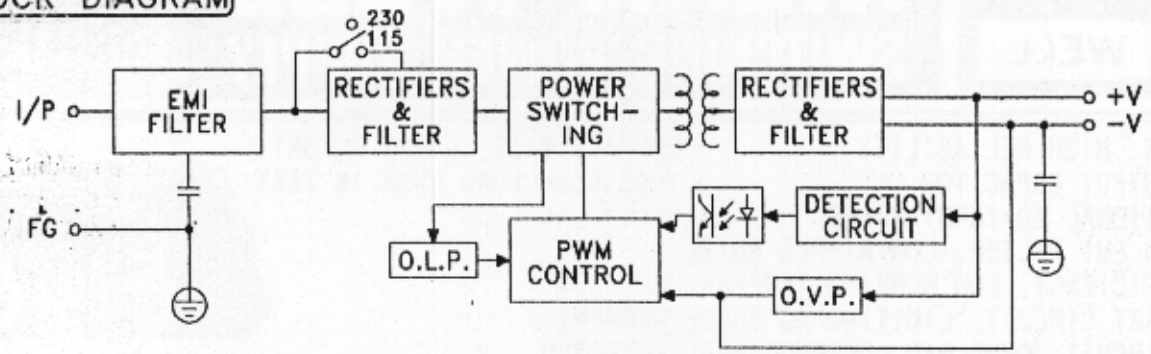


MODEL / SPECIFICATION	S-100F-5	S-100F-7.5	S-100F-12	S-100F-24
DC OUTPUT VOLTAGE	5V	7.5V	12V	24V
OUTPUT V. TOLERANCE	±2%	±1%	±1%	±1%
OUTPUT RATED CURRENT	20A	13.5A	8.5A	4.5A
OUTPUT CURRENT RANGE	0-20A	0-13.5A	0-8.5A	0-4.5A
RIPPLE & NOISE (p-p)	100mVp-p	125mVp-p	125mVp-p	150mVp-p
LINE REGULATION	±0.5%	±0.3%	±0.3%	±0.2%
LOAD REGULATION	±0.5%	±0.3%	±0.3%	±0.2%
DC OUTPUT POWER	100W	101W	102W	108W
EFFICIENCY	76%	78%	80%	83%
DC VOLTAGE ADJ.	±10%	±10%	±10%	±10%
INPUT VOLTAGE RANGE	88～132VAC / 176～264VAC SELECTED BY JUMP ON P.C.B			
INPUT FREQUENCY	47～63Hz			
AC CURRENT	1.9A/115V 1.0A/230V			
INRUSH CURRENT	COLD START 20A/115V 40A/230V			
OVERLOAD PROTECTION	105%～150% TYPE:FOLDBACK CURRENT SHUTDOWN RECOVERY:AUTO			
OVER V. PROTECTION	115%～135%			
OVER TEMP. PROTECTION	-----			
TEMP. COEFFICIENT	±0.03% / ℃			
SETUP,RISE,HOLD UP TIME	1s, 30ms, 15ms			
WITHSTAND VOLTAGE	I/P-O/P:3KV(NOTE:6) I/P-FG:1.5KV O/P-FG:0.5KV 1min.			
WORKING TEMP.,HUMIDITY	-10℃～+60℃, 20%～90% RH (REFER TO OUTPUT DERATING CURVE)			
STORAGE TEMP.,HUMIDITY	-20℃～+85℃, 10%～95% RH			
DIMENSION	199*98*38mm CASE:902			
WEIGHT	0.65Kgs			
SAFETY	UL1012, TUV EN60950 (IEC950, UL1950) APPROVED			
EMC	CISPR22 (EN55022), IEC801-2,3,4, IEC55-2 PENDING			

NOTE:
1. ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25℃ AMBIENT.
2. TOLERANCE : INCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
3. RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
4. LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
5. LOAD REGULATION IS MEASURED FROM 0% TO 100% RATED LOAD.
6. C3,4,32 MUST BE REMOVED.

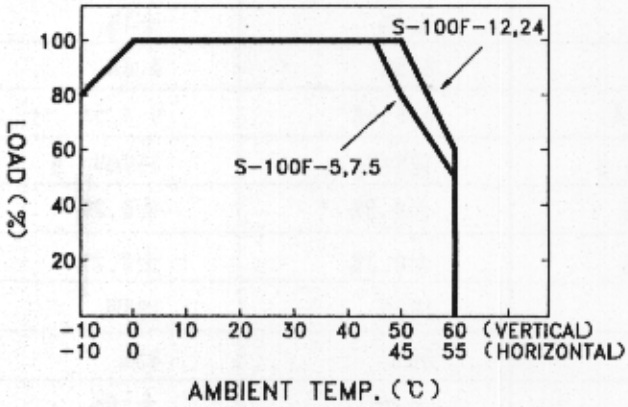
84.10.01

BLOCK DIAGRAM

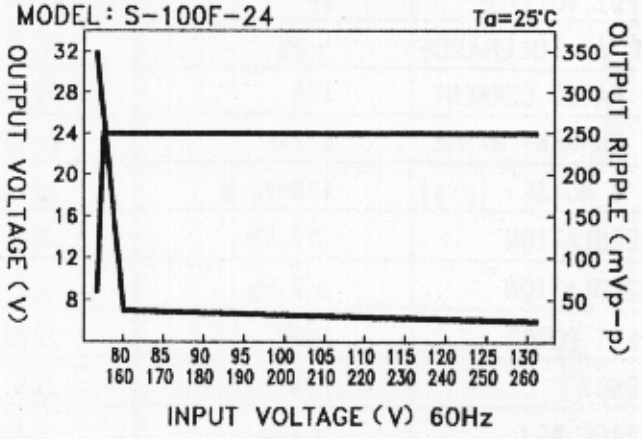


fosc : 83KHz

OUTPUT DERATING



STATIC CHARACTERISTICS



DIMENSION (mm)

- CASE : 901
- TERMINAL PIN NO. ASSIGNMENT
  - PIN 1,2 : AC INPUT
  - PIN 3 : FG ⏚
  - PIN 4,5 : DC OUTPUT -V
  - PIN 6,7 : DC OUTPUT +V